

# Vertical Turbine Pumps (O/L)



# Technical Specifications

## Operation Data

Discharge size:	4" to 12"
Flow range:	150 to 5,500+ GPM
Power:	5 to 600+ HP
Total dynamic head:	Up to 1,600 Feet

## Applications

- Comercial
- Industrial
- Irrigation
- Mining
- Municipal

Materials			
Part	Standard Construction	ASTM Reference	Characteristics
Shaft	Stainless	A582 416	Corrosion Resistant
Throddle Bearing	Bronze	B505 C844	Stabilizes the shaft
Fasteners	Grade 5	SAE Grade 5	Easy to disassemble
Intermediate Bearing	Combined Rubber / Bronze	B505, C844 / NA	For heavy duty with a wide variety of materials available
Notched Bearing	Bronze	B505, C844	Protects the throddle bearing against sand
Impeller	Bronze 316SS (optional)	A744 CF8M	Designed for high efficiency
Bowl	Gray Iron	A48 Class 40	Designed for high efficiency Assembled with screws
Collet	ANSI Stainless	C1045 A582 316	Adjusts the impeller
Sand Cap	Bronze	B505 C844	Protects the suction bearing from sand
Suction Bearing	Bronze	B505 C844	Stabilizes the shaft
Suction	Gray Iron	A48 Class 40	Threaded
Strainer	Steel 304, 316 (opcional)	NA	Guards against solids
Plug	Iron	NA	Filled with grease to maximize resistance to sand

# Industrial, Agricultural and Municipal Application

## Discharge Head

Cast in class 40 gray iron or ductile iron.

## Column Pipe

ASTM A53B straight thread coupling.

## Oil Tube & Shaft

For deep set turbine pumps.  
Stabilizes the shaft.

## Discharge Case and Column Adapter

This is used in oil lubricated vertical turbines for easy assembly and connection.

## Fasteners

Easy assembly and disassembly.

## Intermediate Bowl

Class 40 cast iron to resist against corrosive and abrasive water.

## Impeller

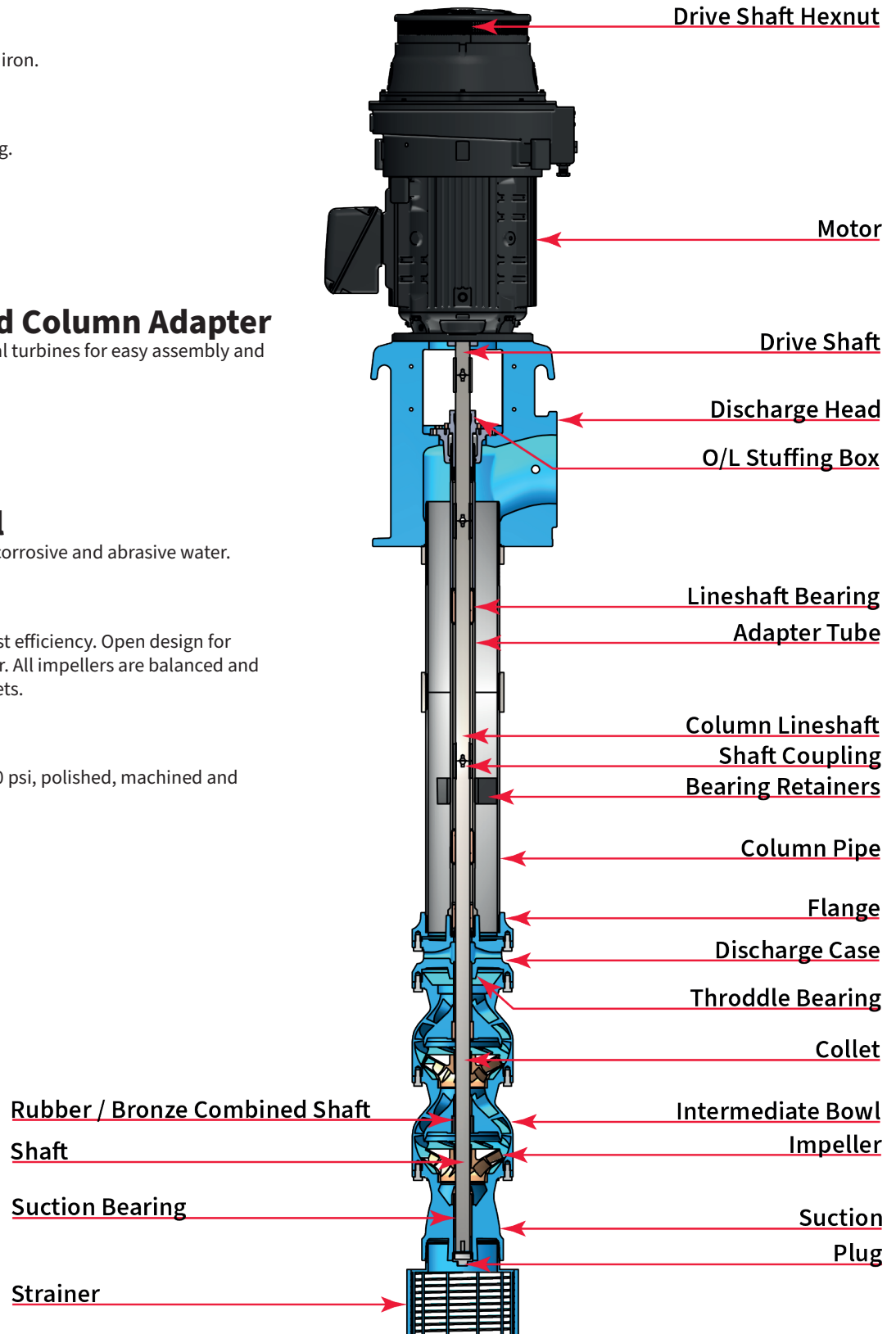
Closed design for achieving the best efficiency. Open design for increased resistance in sandy water. All impellers are balanced and machined to fit with adjusting collets.

## Shaft

Minimum tensile strength of 75,000 psi, polished, machined and ground for best performance.

## Strainer

Protects against solids.



## ABOUT KLASSEN

We are a company dedicated to developing turbine pumps that meet the water needs of agricultural, mining, industrial, and municipal markets worldwide.

Our goal is to make our customers' lives easier and reduce power consumption in the final product. We are committed to consistent improvement in pump design and an environmentally sustainable, low-waste production process.



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